





INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	(PCT Article 18 and Rules 43 and 44)	
pplicant's or agent's like reference	FOR FURTHER ACTION as we	see Form PCT/ISA/220 Il as, where applicable, item 5 below.
9365-095930	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
ternational application No.		24/01/2003
CT/US2004/002244	26/01/2004	21,0-1
pplicant		
INTIER AUTOMOTIVE CLOSURE	S INC.	
	en prepared by this International Searching A transmitted to the International Bureau.	uthority and is transmitted to the applicant
	to at a total of 7 Sheets.	
This International Search Report consist It is also accompanied	its of a total of7 sheets. by a copy of each prior art document cited in t	his report.
		l
1. Basis of the report	he international search was carried out on the unless otherwise indicated under this item.	basis of the international application
language in which it was filed.	he international search was carried out on the unless otherwise indicated under this item.	exploition of the international application furnished to
The internation	nal search was carried out on the basis of a tr	anslation of the international application furnished to
this Authority	Rule 23.1(b)).	sed in the international application, see Box No. I.
		,
2. Certain claims were	found unsearchable (See Box II).	
3. X Unity of invention is	lacking (see Box III).	
4. With regard to the title,	authoritied by the applicant.	
X the text is approved:	as submitted by the applicant. tablished by this Authority to read as follows:	
the text has been es	ablished by this reason,	
1		
1		
5. With regard to the abstract,		
	d as submitted by the applicant.	Authority as it appears in Box No. IV. The applicant
the text has been emay, within one may	established, according to Rule 38.2(b), by this onth from the date of mailing of this internation	Authority as it appears in Box No. IV. The applicant nal search report, submit comments to this Authority.
6. With regards to the drawings	s to be published with the abstract is Figure No	0
	bocause the applicant tall	ed to suggest a figure.
X as selection	ed by this Authority, because this figure better	characterizes the invention.
as selecti	es is to be published with the abstract.	

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in The letter must more an equipmences between the claims as the dato the claims as anienued. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: *Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or new claims]:
 - *Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged.*
- Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended [Where various kinds of amendments are made]: claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added.

The amendments may be accompanied by a statement explaining the amendments and indicating any impact The amendments may be accompanied by a statement explaining the amendments and indicating any interest that such amendments might have on the description and the drawings (which cannot be amended under

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations it may not consum any disputating comments on the international search report or the relevance of catalons contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination to, at the time of many any emericanes under ratices 15, a demand on international political and states with the has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Preliminary Examining International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the The appropriate attention is grawn to the ract mar, where upon entry into the national prices, a rational of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)





Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A recliner assembly is disclosed for providing selective pivotal adjustment of a seat back (14) relative to a seat cushion (12). The recliner assembly includes

a fixed plate (30) fixedly secured to the seat cushion and a mobile plate (30) fixedly secured to the seat back. The mobile plate is fixedly secured to the fixed plate. The mobile plate includes an annular rim having a plurality of teeth (62). A pawl (40) is slidably supported between the fixed and mobile plates for movement in and out of locking engagement with the plurality of teeth. A cam (70) is fixedly secured to a shaft (60) rotatably journaled through an aperture (36) formed in the mobile plate. The aperture is oversized through an aperture to allow the shaft and the cam to float radially relative relative to the shaft to allow the shaft and the cam to float radially relative to the pawl to help prevent binding of the pawl during movement in and out of locking engagement with the plurality of teeth.

INTERN. ONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B60N2/235

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category "	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 024 410 A (YOSHIDA TOMONORI) 15 February 2000 (2000-02-15)	1,2,4, 11-22, 24,27-29
Y	column 7, line 36 - line 49; figures 1,2	3,5-7
Y	US 6 142 569 A (SASAKI AKIRA ET AL) 7 November 2000 (2000-11-07)	3
A	figures 1,2	1
Y	US 6 364 413 B1 (LECONTE S EACUTE BASTIEN ET AL) 2 April 2002 (2002-04-02)	5–7
A	column 5, line 8 - line 18; figure 4	1
X	US 6 092 874 A (KOJIMA YASUHIRO ET AL) 25 July 2000 (2000-07-25) column 3, line 49 - line 58; figure 5	1,20,29
	-/	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
"Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document reterring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search 1 July 2004	Date of mailing of the international search report 13/07/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Authorized officer Pétiaud, A

INTERN. ONAL SEARCH REPORT

International Application No

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT		
ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
(US 5 622 407 A (YAMADA YUKIFUMI ET AL) 22 April 1997 (1997-04-22) column 3, line 8 - line 14; figure 3	1,20,29	
(PATENT ABSTRACTS OF JAPAN vol. 1995, no. 08, 29 September 1995 (1995-09-29) & JP 7 136032 A (AISIN SEIKI CO LTD), 30 May 1995 (1995-05-30) abstract	1,20,29	
	EP 1 195 115 A (NHK SPRING CO LTD) 10 April 2002 (2002-04-10) figure 16	1,3,20, 29	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-19

Recliner assembly with self-adjusting rack of teeth

2. claims: 20-28

Recliner assembly including a cam with axially extending pin

3. claim: 29

Reclined assembly with a fixed plate including wedge surfaces





Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first memboned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERN. ONAL SEARCH REPORT

pation on patent family members

Internavani Application No
PC 104/002244

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